

Starter 9/17

Do Textbook p 14 3-5 all in spiral

On Starter paper p15 19-22 all

Check your work: Page 14; 3-5 & 19-22

# 3  $k = 45$ ;  $45^\circ$ ,  $45^\circ$ ,  $90^\circ$

# 4  $a = 60$ ;  $60^\circ$ ,  $120^\circ$ ,  $60^\circ$ ,  $120^\circ$

# 5  $b = 90$ ;  $90^\circ$ ,  $135^\circ$ ,  $90^\circ$ ,  $90^\circ$ ,  $135^\circ$

\*

19.  $<$

20.  $=$

21.  $>$

22. D

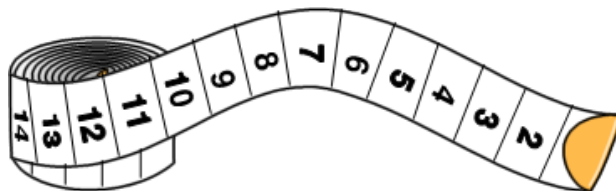
## Solving Multi-Step Equations (1.2L)

Unit Title: Getting Into Shape

Unit Question: Do I Measure Up?

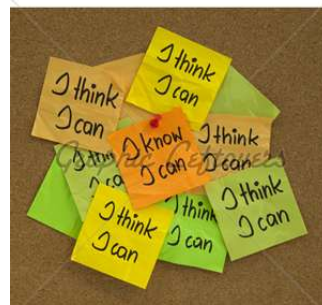
Learner Profile: Balanced

Area of Interaction: Human Ingenuity



## I Can Statement:

I can solve equations using distributive property, combining like terms, and equations with variables on both sides.



= remember

## Words to Live By

Equation

Variable

Inverse Operations

Like Terms

Isolation



**Connection:** When you evaluate an expression, you follow the order of operations. Solving an equation undoes the evaluating, in reverse order. The goal is to isolate the variable term and then solve for the variable.



The height (in feet) of a tree after  $x$  years is  $1.5x + 15$ . After how many years is the tree 24 feet tall?



Combining like terms to solve an equation



What are like terms?

$$8x - 6x - 25 = -35$$





In your notes, work out these three problems.

1.  $-3z + 1 = 7$

2.  $\frac{1}{2}x - 9 = -25$

3.  $-4n - 8n + 17 = 23$



I'll pick a student to share one

#1

$$-3z + 1 = 7$$

#2

$$\frac{1}{2}x - 9 = -25$$

#3

$$- 4n - 8n + 17 = 23$$



## Distributive Property

What is it?

$$2(1 - 5x) + 4 = -8$$



On you own:

$$-3(x + 2) + 5x = -9$$

Day	Miles
Monday	2
Tuesday	0
Wednesday	1.5
Thursday	0
Friday	$x$



Use the table to find the number of miles  $x$  you need to run on Friday so that the mean number of miles run per day is 1.5?

Use your problem solving skills

$$\frac{2 + 0 + 1.5 + 0 + x}{5} = 1.5$$



## From Your Textbook

Assignment: Page 14-15

1,2, 6-14 even, 15-18 all



Show your thinking.

Write algebraic equations,  
when an equation is required.